

VENTURI INDUCTION FOR INTERNAL COMBUSTION ENGINES

Abstract

Air from the intake manifold and fuel from an injector is mixed by a Venturi of fixed or adjustable flow area, upstream of the intake valve. Fuel is injected into the throat of the Venturi to improve vaporization and to premix the fuel and air before the mixture enters the combustion chamber. A pressurized manifold from a supercharger or turbocharger system can enhance the action of the Venturi. The Venturi mixing enhances combustion efficiency, resulting in increased power and fuel economy for an internal combustion engine.